

From glowbugs@theporch.com Sun Aug 25 22:39:41 1996
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Date: Sun, 25 Aug 1996 22:33:31 -0500 (CDT)
Message-Id: <199608260333.WAA26688@uro.theporch.com>
Errors-To: ws4s@midtenn.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 272
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
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GLOWBUGS Digest 272

Topics covered in this issue include:

- 1) Re: Regen Detector Distortion
by rdkeys@csemail.cropsci.ncsu.edu

Date: Sun, 25 Aug 1996 17:22:46 -0400 (EDT)
From: rdkeys@csemail.cropsci.ncsu.edu
To: 72254.1270@CompuServe.COM
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com
Subject: Re: Regen Detector Distortion
Message-ID: <9608252122.AA106151@csemail.cropsci.ncsu.edu>

> My problem is that CW signals received with the detector oscillating
> become increasingly distorted as the signal level becomes higher
> or as the tuned frequency approaches zero beat.

Don..... This is a very common problem with regen detectors.
The main thing is that you are overcoupled into the detector.
Loosen the antenna coupling or if you don't want to do that
(to keep your conversion process happy), loosen the coupling
between the output of the converter stage and the input of the
regenerator stage. Then all will be fine.

Basic principle: A regenerative detector works best on very low inputs.

If you are into fine playing of details, you might try decreasing the grid coupling cap on the detector from whatever it probably is (my guess is 100-500pf) down to maybe 10-20 pf. Also, you might try increasing the detector grid resistor from 1 meg or so (just guessing) up to 10 megs or even higher (I sometimes use infinite megs [no grid resistor and let the leakage currents determine the input resistance] on things like '01A's). You must be very loosely coupled to do this. If you can't uncouple easily, drop the grid resistor down to 50-100K and the input capacitor down to 20pf or so.

> Don Ehrlich K7FJ Seattle

Good LUck

73/ZUT DE NA4G/Bob

p.s. I have been thinking of taking my single bottle regenerator and single bottle hartley oscillator to the Shelby Hamfest for some late nite playing off batteries..... If anyone else is going, bring yer regenerator and hartley along and we will have a januine glowbug rallye there.....(:+}}.....

End of GLOWBUGS Digest 272
